

CLAIMS

What is claimed is:

1. A low voltage driven high brightness LED comprising:

5 a packaging in lamp shape with an LED chip, two or more connecting pins stretch out from said packaging;

a circuit board inside said packaging;

one or more LED chips are on the top center of said circuit board;

a voltage regulation IC applies the voltage regulation circuitry and the vibration circuitry to raise power voltage, and applies capacitor for voltage filtering to adjust the
10 input power for the normal LED chip driving voltage; and

a flashing control IC is on the back of said circuit board.

2. The low voltage driven high brightness LED recited in claim 1, wherein said flashing control IC drives one or more said LED chips flash in turn or at the same time.

3. The low voltage driven high brightness LED recited in claim 1, wherein said LED chip
15 is a die before packaging, said LED chip is fixed on said circuit board directly then is bonded with wires.

4. The low voltage driven high brightness LED recited in claim 1, wherein said LED chip is a packaged LED unit and is fixed on said circuit board with SMD technology.